

Simon Aron

Full Stack Software Engineer | B2B Products and AI Systems

PROFILE

Full-stack software engineer building B2B products with Ruby on Rails, React, TypeScript and PostgreSQL. End-to-end product ownership and direct client collaboration, with experience in AI agents, integrations and real-time systems.

PRIMARY STACK

Ruby, Ruby on Rails, JavaScript, TypeScript, React, PostgreSQL

AI AND SYSTEMS

AI agents, retrieval-augmented generation (RAG), prompt/context engineering, model benchmarking, sandboxed code execution, WebSockets, IPC, RBAC, caching

ADDITIONAL SKILLS

Python, C/C++, C#, Java, Kotlin, Dart, Lua, Rust, Angular, ASP.NET Core, Flutter, MongoDB

EDUCATION

MSc Computer Science
Sapientia University | 2025-Present
BSc Computer Science
Babeş-Bolyai University | 2022-2025

ACHIEVEMENTS

10th internationally | Nemes Tihamér (2022)
38th globally | Cloudflight Coding Contest (2024)

SPOKEN LANGUAGES

Hungarian C2 | English C1
Romanian C1

LOCATION

Târgu Mureş, Romania

EMAIL

simonarons15@gmail.com

LINKS

github.com/sheepkill15
gitlab.com/sheepkill15

EXPERIENCE

OCT 2024 - PRESENT

Software Engineer | TakeOffLabs

- Served as the sole full-stack developer for 1.5 years on an AI-first B2B CRM/ERP, owning Rails, React, TypeScript and PostgreSQL end-to-end and working directly with clients.
- Built a sandboxed AI agent able to perform actions available to the current user; generated its callable TypeScript/JavaScript API from YARD-documented Rails services.
- Implemented customizable role-based access control (RBAC) and interactive approval for state-changing actions across background processes and foreground WebSockets using interprocess communication (IPC).
- Improved AI-agent performance by replacing web API communication between the agent worker and main server with IPC and pipes, eliminating the need for networking.
- Optimized AI latency and inference cost through prompt/context design, code-based tool execution, caching and regular cross-model benchmarks.
- Built multi-account AI email automation for Gmail, Outlook and IMAP/SMTP, plus real-time private, group and announcement messaging.

JUN 2024 - AUG 2024

Software Engineering Intern | Accenture Industry X

- Built a demonstration manufacturing execution and operations management (MES/MOM) application with Angular and ASP.NET Core, modelling industrial manufacturing workflows.

NOV 2022 - JUN 2023

Lead Developer | ACard (KMDSZ)

- Implemented every major feature of a Flutter and Directus student-card app used by hundreds of students at its peak.
- Delivered most core features in a three-developer team, covering registration and access to public transport, events and partner discounts.

PROJECTS

OmniDesign | AI-powered design tool

Electron, React and TypeScript desktop app that generates multi-page UI designs using locally installed Claude Code, Codex and similar tools through users' existing AI subscriptions.

ProjCpp | Visual Studio Code extension

TypeScript extension for viewing and creating C++ projects, compiling and running them with one click, and helping set up the compiler.